



FCC ID: TQ8-AV240INAN/ IC: 5074A-AV240INKN

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## **ATTACHMENT E.**

**- User Manual -**

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DIGITAL NAVIGATION SYSTEM

User's Manual



DIGITAL NAVIGATION SYSTEM



SONATA

hybrid

AV240INAN

User's Manual



## Preface

Thank you for purchasing this Audio Navigation System.

This user's manual explains how to use the Hyundai Motor Audio Navigation System.

Before using the product, read the contents of this user's manual carefully and use this product safely.

- The screens shown in this manual may differ with the actual screens of the product.
- The design and specification of this product may change without prior notification for product improvement.
- When transferring the vehicle to another individual, include this user's manual so that the next driver can continue its use.

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PART 1 PRE-OVERVIEW

Introduction

Important information about this manual

This user manual contains instructions related to safety. Closely observe and comply with all of the safety instructions found within this manual.

**WARNING!**

Disobeying the warnings listed within this user's manual may cause fatal or serious injuries. Warnings indicate matters which may directly lead to accidents.

**CAUTION!**

Disobeying the cautions listed within this user manual may lead to accidents or cause injury. Cautions indicate matters which may lead to vehicle damage or malfunction.

**INFORMATION**

Information which the user must be aware or allows for more convenient use of the device.

Precaution for safe usage

**WARNING!**

- Do not operate the Audio Navigation system while driving.
- Do not disassemble, assemble, or modify the Audio Navigation system.
- Do not watch the screen for prolonged periods of time while driving.
- Set the volume to a level which allows the driver to be aware of external conditions.

**CAUTION!**

- Do not operate the Audio Navigation system for prolonged periods of time with the vehicle ignition in ACC. Such operations may lead to battery discharge.
- Be cautious not to spill water or introduce foreign objects into the device.
- Do not cause severe shock to the device. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch panel.

- In case of product malfunction, please contact your place of purchase or service center.
- When cleaning the touch screen, make sure to turn off the device and use a dry and smooth cloth. Never use tough materials, chemical cloths, or solvents (alcohol, ammonia, benzene, thinners, etc.) as such materials may damage the device panel or cause color and quality deterioration.

**Reference Page**

This indicates the title and page that you should refer to.

This indicates a key on the control panel.

**Voice Command**

This indicates an operation by voice command.

Controller and functions

Control panel



- 1** Power / Volume control knob
  - Push knob (over 0.8 second) : turns the power off.
  - Push knob (under 0.8 second) : each time the knob is pressed, the Audio is turned on and off.
  - Tune knob : the range of volume adjustment is between 0 - 35.
- 2** FM/AM
  - Each press will change the bands in the following order: FM1 → FM2 → AM → FM1 ...
- 3** XM
  - Each press will change the bands in the following order: XM1 → XM2 → XM3 → XM1 ...

- 4** SEEK/TRACK Up/Down
  - SHORT KEY(less than 0.8 second)
    - FM/AM Mode : automatically searches for the previous or next broadcast frequency and starts playing.
    - XM Mode : receives the previous or next channel.
    - CD Mode : plays the previous or next track.
    - MP3, USB Mode : Plays the previous or next file.
    - iPod Mode : plays the previous or next song.
  - LONG KEY(over 0.8 second)
    - FM/AM Mode : quickly moves through the frequencies while the button is pressed. Once released, automatically searches for broadcasts which can be received.
    - XM Mode : quickly moves to the previous or next channel.
    - CD Mode : REW/FF the current playing track.
- 5** MEDIA
  - Each press will change the bands in the following order: DISC(CD, MP3) → (USB or iPod) → (AUX) → (Phone Music) → DISC(CD, MP3)...

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- MP3, USB Mode : REW/FF the current playing file.
- iPod Mode : REW/FF the current playing song.

PHONE

Displays the Bluetooth® handsfree screen.

HYBRIDE

Displays the Hybride info screen.

MAPVOICE

Displays the map screen for the current position.

ROUTE

Displays the Route menu screen.

DEST

Displays the displays setting screen.

TUNE

- FM/AM Mode : push the key to search for the desired frequency. Press the key to receive the selected frequency.

- XM Mode : push the key to search for the desired channel. After a brief moment, the selected channel will be displayed.
- CD Mode : push the key to search for the desired track. Press the key to play the selected track.
- MP3, USB Mode : push the key to search for the desired file. Press the key to play the selected file.
- iPod Mode : push the key to search for the desired song. Press the key to play the selected song.

SETUP

Displays the Setup menu screen.

ENTER

Completes the command.

RESET

Resets the system - if software locks-up.

INFORMATION

If pressing the power off knob for over 0.8 second and the system does not shut down, and carefully use and insert a straightened paper clip at the access hole shown next to the right DISC indicator LED to reset the software. The system power will shut-off and restart.

Clock

- Short Key (under 0.8 second)
  - When the screen is turned on : displays the current time in the center of the screen.
  - When the screen is turned off : turns the full clock screen on and off.
- Long Key (over 0.8 second)
  - Displays the clock setting screen.

DISC eject

Ejects the inserted disc.

DISC insert indicator LED

Displays whether a DISC has been inserted.

Steering wheel remote controller



MODE

Each time the Mode key is pressed, the mode changes in the following order: FM1 → FM2 → AM → XM1 → XM2 → XM3 → (DISC) → (USB or iPod) → (AUX) → (Phone Music) → FM1 ...  
If an unsupported DISC is inserted, if there is no disc, or if an external device (e.g. iPod, USB memory stick, etc.) has not been connected, the mode will not be recognized and automatically switch to the next mode.

- Press this key for over 0.8 second to turn the Audio ON and OFF.
- Press this key when the Power is turned off to turn the power on.

Volume Up/Down

Increases or decreases the volume within a range between 0 ~ 35. Volume for navigation and voice guidance can be adjusted in the setup mode.

Seek Up/Down

- SHORT KEY (less than 0.8 second)
  - FM/AM : receives the previous or next preset frequency.
  - XM Mode : receives the previous or next preset channel.
  - CD Mode : plays the previous or next track.
  - MP3, USB Mode : plays the previous or next file.
  - iPod Mode : plays the previous or next song.

LONG KEY (Over 0.8 second)

- FM/AM Mode : quickly moves through the frequencies while the key is pressed. Once released, automatically searches for broadcasts which can be received.
- XM Mode : quickly moves to the previous or next channel.
- CD Mode : REW/FF the current playing track.
- MP3, USB Mode : REW/FF the current playing file.
- iPod Mode : REW/FF the current playing song.

Voice Recognition

Starts Voice Recognition.

CALL

Press this key to receive an incoming call. If pressed while in Audio/Navigation mode, the Bluetooth® handsfree screen will be displayed.

END

Press this key to reject an incoming call. If pressed while on a call, then the call will be terminated.

PART 1 PRE-OVERVIEW

HVAC System



**1 FRONT**  
Removes humidity and frost by blowing fan towards the front window.

**2 REAR**  
The rear window defroster is turned ON/OFF. When the defroster is operating, the light on the display window and at the top of the switch will turn on.

**3 AUTO**  
Operates heating/cooling auto mode which maintains cabin temperature at suitable levels by using the outside temperature sensor.

Once AUTO mode is operated, the light at the top of the switch will turn on.

**4 OFF**  
Turns the HVAC system off.

**5**  
Switches the air intake mode to recirculation or exterior mode.

**6 DUAL**  
Turns DUAL operation on or off. Upon turning on DUAL, the driver-side and passenger-side temperature can be operated independently.

**7 A/C**  
Turns the air conditioner ON/OFF.

**8 CLIMATE**  
Displays the general status of the HVAC system, such as temperature, outside temperature, fan mode, and fan level.

**9 Mode : Top**  
Turns the face-direction fan mode on and off.

**10 Mode : Ventral**  
Turns the chest-direction fan mode on and off.

**11 Mode : Floor**  
Turns the floor-direction fan mode on and off.

**12 (FAN)**  
Sets the fan level.

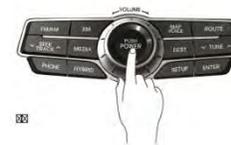
**13 TEMP(Driver Side)**  
Raises or lowers the driver-side temperature.

**14 TEMP(PassengerSide)**  
Raises or lowers the passenger-side temperature.

Basic operation and setting

Turning the Power ON

1. Turn the ignition key onto ACC or ON. If the system power had been on when the ignition was turned off, the system will turn back on automatically.
2. If the system power had been off when the ignition was turned off, the system will remain off. In this case, press the **POWER** knob to turn on the system power.



System Power ON

**1 INFORMATION**

As system booting starts from the point the door lock is unlocked, the device may complete booting before the ACC is turned on or the **POWER** knob is pressed. Consequently, the booting screen may not be displayed upon initially turning on the system power.



3. Once system booting is complete, the most recent operated mode will be displayed. For example, turning on the system will display FM1 radio mode if the last operated mode prior to turning off the system had been FM1 radio mode.

Turning the Power OFF

If the **POWER** knob is pressed for over 0.8 second, a beep will sound and the system power will be turned off.

Turning the Audio ON/OFF

Press the **POWER** knob for under 0.8 second with the system power on to turn the Audio on and off.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command. "Audio On" "Audio Off"

**1 INFORMATION**

Conducting the following operations while the AUDIO is off will automatically turn on the Audio system.

- Pressing the Audio related keys (**FM/AM**, **XM**, **MEDIA**).
- Inserting a DISC or connecting an external device.

PART 1 PRE-OVERVIEW

**Adjusting audio volume**

Turn the **POWER** knob in clockwise direction to increase the volume and counter-clockwise to decrease the volume.

**INFORMATION**

- The range of volume adjustment is between 0 – 35.
- Adjustments to the volume cannot be made while the AUDIO is turned off.

**How to operate the screen menu**

**Operating typical screen menu**

- If a menu button on the screen is pressed, the corresponding function will begin operation.
- The same menu button may perform different functions depending on the length of time the button is pressed (under 0.8 seconds or over 0.8 second). For more information, refer to the specific function within this user manual.
- The current operated button will be highlighted upon display.

- Buttons which cannot be operated under the current conditions will be displayed in disabled state. Pressing a disabled button will not perform any operation.

**Inputting letter by using screen keyboard**



**ABC** : Displays the English alphabet keypad.

**AcE** : Displays the French alphabet keypad. (if available).

**0-9** : Displays the number and symbol keypad.

**Delete** : Deletes the previously inputted letter. Pressing for over 0.8 second will delete all content.

**Done** : The input is completed.

**←** : Restores to previous screen. The inputted text will not be saved.

**Displaying the list**



**List** : Even if input is not complete, the current matching items from the database will be displayed.

**INFORMATION**

The number at the upper-right side of the screen displays the number of current matches.

**Selecting an item in a list**



**▲ ▼** : Moves to the next page or previous page.

**▶ ◀** : The **▶** button will be displayed if the text is too long to be displayed in one button.

Press the **▶** button to move the cursor to the end of the text. Press the **◀** button to move the cursor to the front of the text.

**Sorting items from list**



Select the desired sorting method to reorganize the list in accordance to the selected method.

**How to operate menu by voice command**

**Conditions for voice recognition system**  
Most of the functions within the Audio and Navigation system can be operated by voice. Please follow the instructions below for optimal voice recognition performance.

- Close all windows and the sunroof. The voice recognition can be improved when in a quiet environment.
- Press the voice recognition button and say the desired voice command after the sound of the beep.
- The microphone is positioned above the driver so that voice commands can be said while maintaining a proper posture.
- Pronounce the voice commands naturally and clearly as if in normal conversation.

PART 1 PRE-OVERVIEW

Giving voice command



1. Press the **VA** key on the steering wheel remote controller.  
A voice command window will be displayed on the lower side of the screen followed by a "Command please" system voice comment.
2. Once the **VA** icon changes into the **VA** icon on the pop-up screen with a beep sound, say the desired voice command.  
[Voice command list], page 5-6.  
[Searching a destination by voice command], page 5-19.

**INFORMATION**

Press the **VA** key shortly to input the desired voice command. The system voice instruction comment will immediately terminate. When the **VA** icon changes into the **VA** icon with a beep sound, it is possible to input voice commands.

Sound setting

Press the **Sound** button on the main screen of each Audio mode (FM/AM, XM, CD, MP3, USB, iPod) to display the Sound setting screen.



FAD/BAL

The position of the sound can be adjusted by using the up-down and left-right **▲▼** buttons on the left side of the screen.  
Press the **Center** button to position the sound in the center of the vehicle.

BASS/MID/TREB

The BASS/MID/TREB can be adjusted by using the left/right buttons **◀▶** of each control.

Auto volume control ON/OFF

Each time the **Auto volume control** button is pressed, the Auto volume control function is turned on or off.

**INFORMATION**

The Auto Volume Control is a function which automatically adjusts the volume level in accordance to changes in vehicle speed.

Touch screen beep ON/OFF

Each time the **Touch screen beep** button is pressed, the beeping sound that follows each press on the screen will turn on or off.

Variable EQ Setup (Optional)

Operating Variable EQ

1. Press the **Variable EQ** button at the top of the **Sound** screen.



2. Within the <Variable EQ> screen, three types of EQ setups such as Normal, Dynamic, Concert can be selected.



3. Press the **Detail** button to view specific information on the three EQ settings.

**INFORMATION**

The Variable EQ feature may not be supported in some vehicle models and tuner mode.

PART 1 PRE-OVERVIEW

Display setting

Press the **SETUP** key on the control panel to display the Setup menu screen.



Press **Display** button to display the Display Setup screen.



Display mode

Press the button for the desired display mode from **Automatic**, **Day**, and **Night** modes. The current selected mode is highlighted.

- **Automatic**  
The display is automatically converted between Daylight and Night modes in accordance to the on/off state of the vehicle taillights.
- **Day**  
The bright screen is always maintained regardless of the on/off state of the vehicle taillights.
- **Night**  
The dark screen is always maintained regardless of the on/off state of the vehicle taillights.

Brightness

Use the left/right buttons (**◀ ▶**) for control to make adjustments.

Display OFF

Press the **Display Off** button.

Display ON

Press anywhere on the black screen. The screen prior to display setting will be displayed.

Viewing Current Time

Press the **1** on the front panel shortly (under 0.8 second) to display the current time at the center of the screen.



INFORMATION

If the screen is turned off, selecting the **1** will display the current time on the entire screen.

Setting the Clock

Press and hold the **1** on the front panel (over 0.8 second) to display the Clock setting screen.



• GPS Time

The time received from the GPS will be displayed automatically.

• Clock Type

Selects the clock type shown as the entire screen when the system power is turned off.

• Time Format

When the clock type is digital, this button is used to convert the time between 12 hour/ 24 hour systems.

• Daylight Saving Time

Turns the Daylight Saving Time function on or off.

INFORMATION

Clock setting mode can be displayed while the clock is displayed on the screen even when the system is turned off.

Setting Display OFF

Display Photo Frame

1. Press the **Power Off Set** button in the DISPLAY setup screen.
2. Press the **Photo Frame** button in the <Setting Display Off> setup screen.



3. The registered image will be displayed once power is turned off.

INFORMATION

For Photo Frame setup, the frame must be set in USB Image mode. (For details on setting the Photo Frame, refer to the USB IMAGE page.)

4. To delete an image registered as a frame, press the **Delete Image** button.

**PART 2 AUDIO SYSTEM**

**PART 2  
AUDIO SYSTEM**

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PART 2 AUDIO SYSTEM

Operating the radio

FM/AM Radio

Listening to the FM/AM radio



1. Press the **FM/AM** key on the control panel. The FM/AM radio band of the most recent listened station will be displayed.
2. Press the **FM/AM** key to change the desired radio band. Each press will change the bands in the following order: FM1 → FM2 → AM → FM1 ...
3. Select the desired broadcast frequency. [\[Selecting FM/AM broadcast frequency\]](#), page 2-3.

2-2

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
  - "Radio"
  - "(Radio) AM"
  - "(Radio) FM"
  - "(Radio) FM <1 or 2>"
  - "AM Frequency <530 to 1710>"
  - "FM Frequency <87.5 to 107.9>"
  - "AM Preset <1 to 6>"
  - "FM <1 or 2> Preset <1 to 6>"

FM/AM screen and functions



- 1 Mode display : displays the FM1/FM2/ AM modes.
- 2 SEEK/SCAN/PRESET SCAN/AUTO PRESET indicator : If SEEK/SCAN/PRESET SCAN / AUTO PRESET is operating, the switch is displayed.

- 3 Program Service name : displays the program service name if data is being broadcast.
- 4 Frequency : displays the current playing frequency.
- 5 Program type name : displays the program type name if data is being broadcast.
- 6 Radio Text : displays the radio text information if data is being broadcast.
- 7 Frequency Bar : displays the position of the current frequency within the total frequency range.
- 8 Current time : displays the current time manually automatically according to the GPS time.

- 9 Preset buttons : the desired frequency can be preset and selected. [\[Storing FM/AM preset\]](#), page 2-4.
- 10 R-Text ON/OFF button : turns the Radio Text information on and off.

INFORMATION

If the **R-Text** is on OFF state, text will not be displayed even if there is text being transmitted from the broadcast station. If the **R-Text** is on ON state, the frequency bar will not be displayed. Even if the **R-Text** is on ON state, text may not be displayed if text is not being received from the broadcast station.

- 11 Auto Store button : searches the 6 frequencies with the most superior reception and automatically stores as preset buttons in corresponding order. [\[Storing FM/AM preset\]](#), page 2-4.
- 12 Scan button : scans all frequencies or just the preset frequencies for 5 seconds each. [\[Scanning FM/AM broadcast frequency\]](#), page 2-5.
- 13 Sound button : adjusts the FAD/BAL, BASS/MID/TREB controls. [\[Sound setting\]](#), page 1-10.

Selecting FM/AM broadcast frequency

There are 3 ways to select the broadcast frequency - (a) selecting through preset, (b) selecting through SEEK, (c) selecting through manual search.

**(a) Selecting a frequency through preset**  
Press the preset button of the desired broadcast frequency.

INFORMATION

- Press the **▲** or **▼** key on the steering wheel remote controller shortly. The preset frequencies of the current band will be selected in order.
- There are 6 preset frequencies each for FM1, FM2, and AM modes. [\[Storing FM/AM preset\]](#), page 2-4.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
  - "Preset <1 to 6>"
  - "Preset Up"
  - "Preset Down"

AUDIO SYSTEM 2-3

AUDIO SYSTEM

PART 2 AUDIO SYSTEM

**(b) Selecting a Broadcast frequency through SEEK**

Press the **SEEK** key on the control panel for less than 0.8 second.  
Once the SEEK function is operating (SEEK indicator blinking), the next or previous broadcast frequency with superior reception will be searched automatically.

**INFORMATION**

- Press the **SEEK** key on the control panel or steering wheel remote controller for more than 0.8 second to quickly move to the nearest desired frequency. Once the button is released, the next frequency with superior reception will be searched automatically.
- If the SEEK function is operating, pressing the **SEEK** key on the control panel again will terminate SEEK operation and select the current frequency.

**Voice Command**

1. Press the **FC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Seek Up"  
"Seek Down"

**(c) Selecting a broadcast frequency through manual search**

Press the **VTUNE** key to search for desired frequency.  
Each click on the **VTUNE** key will increase or decrease the frequency by 1 step (FM: 0.2 MHz, AM: 10 KHz).

**Storing FM/AM preset**

There are 2 ways to store preset frequencies - (a) storing manually and (b) auto store.

**(a) Storing manually**

1. Select the desired frequency.
2. [Selecting FM/AM broadcast frequency], page 2-3.

2. Press the preset button to store for over 0.8 second. The frequency will become stored along with a beep sound.

**INFORMATION**

Six preset frequencies each for FM1/ FM2/AM modes can be stored using the above instructions.

**(b) Auto store**

After selecting the desired band, press the **Auto store** button. The 6 frequencies with the most superior reception will be stored as preset buttons in corresponding order.

**INFORMATION**

If the **Auto store** button is pressed again while operating Auto Store, then the Auto Store operation will be terminated and the previously played frequency will be restored.

**Voice Command**

1. Press the **FC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Auto preset"

**Scanning FM/AM broadcast frequency**

1. Press the **Scan** button.
  - SCAN (less than 0.8 second) : scans all frequencies and plays only frequencies with superior reception for 5 seconds each.

**Voice Command**

1. Press the **FC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Scan"

- PRESET SCAN (over 0.8 second): scans the 6 frequencies stored as delete this part in the current band for 5 seconds each.

**Voice Command**

1. Press the **FC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Preset Scan"

2. Press the **Scan** button again to continue listening to a frequency. The scan will be terminated and the current frequency will continue to be played.

**INFORMATION**

When scanning has completed an entire revolution, the scan function will terminate automatically and the previous played frequency will be restored.

PART 2 AUDIO SYSTEM

HD Radio

Starting HD Radio Mode



1. Press the **FM/AM** key to turn on FM/AM mode. If a broadcast is received while HD Radio is turned on, radio mode will switch from analog broadcast to HD broadcast.
2. Press the **FM/AM** key will convert the mode in the order of FM1 → FM2 → AM and convert to HD broadcast once a HD broadcast becomes received.

HD Radio Mode Screens and Functions



1. Preset Button: desired HD frequencies are saved for convenient frequency selection. Saves up to HD1~HD8 according to sub broadcasts.
2. HD Broadcasting reception display: displays HD main, broadcast receiving from sub broadcast 1 ~ 8. The yellow indicates the currently playing sub broadcast.
3. Broadcast station name
4. Genre Display : displays the current genre.
5. Detail On: displays detailed information for current broadcast.
6. HD sub broadcast move button : moves from HD main 1 broadcast to sub 8 broadcast.

**i** INFORMATION

HD Radio broadcasts simultaneously receive up to 8 different sub broadcasts for each channel, allowing users to listen to various broadcasts. Main 1 broadcast is a HD broadcast for the same broadcast contents as analog, while sub 2 ~ 8 are broadcasts of different contents.

Operating HD Radio Mode

• Selecting a Frequency



As HD Radio is included within Radio mode, the methods of moving between channels, saving presets, searching, or methods of searching frequencies are identical. However, while the HD Radio is turned on, the HD Radio related icon display will become active when within regions where HD radio can be received.

• Selecting frequency through Preset



1. Press the buttons with HD1~HD8 displayed above the preset button to listen to the corresponding HD channel broadcast.

• Selecting frequency through TUNE

1. Select a channel receiving HD broadcast automatically or manually and press the 00 button to move to the corresponding HD channel sub broadcast.

**i** INFORMATION

For HD broadcast channels without sub channels, the sub channels of sub numbers will be skipped to move only to channels which can be received.

• Storing a frequency to a preset button

**• Storing Manually**  
This function allows you to manually save the desired sub broadcast frequency within the currently playing HD broadcast channel. Method of saving is identical with the method of saving radio presets. After saving is complete, the HD sub broadcast number will be displayed on above the frequency.

PART 2 AUDIO SYSTEM

XM radio

Listening to the XM radio



1. Press the **XM** key on the control panel. The XM radio band screen of the most recent listened station will be displayed.
2. Press the **XM** key to change the desired radio band. Each press will change the bands in the following order: XM1 → XM2 → XM3 → XM1 ...
3. Select the desired broadcast channel. [Selecting XM broadcast channel], page 2-7.

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Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
  - "XM"
  - "XM <1 or 2 or 3>"
  - "XM Channel <0 to 255>"
  - "XM <1 or 2 or 3> Preset <1 to 6>"

XM screen and functions



1. Mode display : displays the XM1/XM2/ XM3 modes.
2. SCAN/PRESET SCAN indicator : if SCAN/PRESET SCAN is operating, the switch is displayed.

- 3. Channel number : displays the current playing channel.
- 4. Channel mode indicator : displays the channel mode in orange.
- 5. Category mode indicator : displays the category mode in orange.
- 6. Channel name : displays the channel name.
- 7. NAME : displays the artist and other related information.
- 8. Title name : displays the title name.
- 9. Category name : displays the category name.
- 10. Current time : displays the current time manually automatically according to the GPS time.
- 11. Preset buttons : the desired channel can be preset and selected. [Storing XM preset], page 2-9.
- 12. Mode buttons : switches between channel mode and category mode. [Switching the XM mode], page 2-7.

- 13. List button : displays the channel or category list. [Selecting XM broadcast channel], page 2-7.
- 14. Search button : selects the channel by directly inputting the channel number. [Selecting XM broadcast channel], page 2-7.
- 15. Scan button : scans all frequencies or just the preset channels for 5 seconds each. [Scanning XM broadcast channel], page 2-9.
- 16. Sound button : adjusts the FAD/BAL, BASS/MID/TREB controls. [Sound setting], page 1-10.

Switching the XM mode (Channel / Category)

Each time the **Mode** button is pressed, the mode will switch between channel mode and category mode. Use the tune knob to change categories and press the tune knob change to selected category.

Selecting XM broadcast channel

There are 5 ways to select a broadcast channel - (a) selecting through preset, (b) selecting with channel Up/Down, (c) selecting a channel through manual search, (d) selecting through channel/ category list, (e) selecting by directly inputting the channel number.

(a) Selecting a channel through preset

Press the preset button of the desired channel.

INFORMATION

- Press the **Up** or **Down** key on the steering wheel remote controller for less than 0.8 second. The preset channels of the current band will be selected in order.
- There are 6 preset channels each for XM1, XM2, and XM3. [Storing XM preset], page 2-9.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
  - "Preset <1 to 6>"
  - "Preset Up"
  - "Preset Down"

(b) Selecting with Channel Up/Down

Press the **Channel Up/Down** key on the control panel for less than 0.8 second. The previous or next channel will be selected.

INFORMATION

- If in Channel mode, the channel is selected from all channels. If in Category mode, the first channel of each category is selected.
- Press the **Channel Up/Down** key on the control panel or steering wheel remote controller for more than 0.8 second to quickly move to the nearest desired channel. Once the button is released, the current channel will be selected.

AUDIO SYSTEM 2-9

PART 2 AUDIO SYSTEM

**Voice Command**

1. Press the **MC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Channel Up"  
"Channel Down"

**(c) Selecting a channel through manual search**

Press the **TUNER** key to display the previous or next channel information. After a brief moment, the selected channel will be displayed.

**INFORMATION**

If in channel mode, the channel is selected from all channels. If in category mode, the first channel of each category is selected. (Category search)

**(d) Selecting channel through channel/category list**

1. Press the **List** button.
- If in category mode, the all category list screen will be displayed. Select the desired category button to display the channel list screen for the corresponding category.



- If in channel mode, the all channels list screen will be displayed.



2. Select the desired channel button. The previous screen will be restored and the selected channel will begin playing.

**(e) Selecting channel by directly inputting the channel number**

1. Press the **Search** button. The channel input screen will be displayed.



2. Input desired channel number, and press the **OK** button.

The previous screen will be restored and the selected channel will begin playing.

**INFORMATION**

To prevent inputting a channel which exceeds the channel range, numbers which cannot be inputted are set to disabled state.

**Voice Command**

1. Press the **MC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Channel-0 to 255>"

**Storing XM preset**

1. Select the desired channel. [Selecting XM broadcast channel, page 2-7.
2. Press the preset button for over 0.8 second. The frequency will be saved along with beep sound.

**INFORMATION**

Six preset frequencies each for XM1/ XM2/ XM3 modes can be stored using the above instructions.

**Scanning XM broadcast channel**

1. Press the **Scan** button.
- SCAN (under 0.8 second): scans all channels for 5 seconds each if in channel mode. If in category mode, scans all channels within the current category for 5 seconds each.

**Voice Command**

1. Press the **MC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Scan"

- PRESET SCAN (over 0.8 second): scans the 6 preset channels within the current band for 5 seconds each.

**Voice Command**

1. Press the **MC** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Preset Scan"

1. Press the **Scan** button again to continue playing the channel. The scan will be terminated and the current channel will continue to be played.

**INFORMATION**

- When scanning has completed an entire revolution, the scan function is automatically terminated and the previous played channel will be restored.
- Channel 0 is the radio ID and contains information required for XM Activation.

PART 2 AUDIO SYSTEM

Operating the CD Player

About CD Player

Precautions upon handling discs

- After using a disc, keep it in the original case to prevent it from becoming scratched, which may cause the CD to make popping sounds.
- Do not use heart-shaped discs, octagon-shaped discs, or any other abnormally shaped disc. Such discs may be the cause of malfunctions.
- Do not clean discs with chemical solutions such as record sprays, antistatic sprays, anti-static liquids, benzene, or thinners. Such materials may cause the surface of DISC to be unrecoverable.
- Do not expose the disc to direct sunlight for prolonged periods of time. Such exposure may lead to disc deformation.
- Dust, scratch, and other substances may cause popping sound while playing as well as sound deterioration.

- Never place paper on either side of the disc or write on disc surfaces. Sharp writing utensils and inks used in felt-tip pens may cause damage to disc surfaces
  - Clean fingerprints and dust off the signal surface (coated side) of the disc with a soft cloth. Only soft cloths should be used as there are no grooves for dust to get in as is the case with LPs.
  - Copy-protected CDs such as S-type CDs may not function in the device.
  - DATA CDs are not supported by the device. (However, such discs may operate abnormally.)
- For safe and efficient operation**
- Do not disassemble the CD Player for repair purposes. Contact your place of purchase in the case of malfunction. (Complete service assistance will not be provided if the user disassembles the device.)
  - Do not use water to clean the device. Exposure to water may cause damage to the device.
- Be cautious not to introduce foreign substances into the disc insert slot. Foreign substances may cause damage to the interior of the device.
  - The device may fail to operate properly in extremely hot or cold temperatures. Discontinue the use of the device unless normal temperature is maintained. (The operational temperature range is: -10°C ~ 65°C).
  - Steam can be condensed on the fiberoptic lens due to rain, wet conditions, or upon operating the heating system.
  - Skipping may occur to the audio when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle.
  - Do not use chemical solvent to clean the device. Such solvents may cause damage to the surfaces of the device. Always use a clean and dry cloth.

**WARNING !**

Always pay full attention to driving. Avoid operating your system in such a way that you are distracted from driving your vehicle.

**Supported disc formats**

- The disc types supported by this device are as shown below.

Disc Size
3-inch (7.6 cm)
5-inch (12.7cm)

Disc Type	Disc Media	Disc Format
CD	CD	CD-DA
	CD-R	MP3
	CD-RW	WMA
	Multisession-CD	DTS-CD
		CD-ROM
		CD-G
		CD-EXTRA
		CD-TEXT

Disc format	Audio format
CD	LPCM
MP3	MPEG1, Layer3
	MPEG2, Layer3
	MPEG2.5
WMA	Ver9

- CD-R or CD-RW DISC burned with a bulk CD without quality guarantees may not be recognized by the device.
- Inserting an abnormal disc may result in faulty operation or recognition.

AUDIO SYSTEM

PART 2 AUDIO SYSTEM

**Disc/Content format compatibility**

- Ordinary disc compatibility
- This device has been designed/ manufactured to be compatible with software bearing the following logo marks.



Audio-CD CD-R CD-RW

- CD-R/RW discs (Audio CD and MP3 CD) created with CD-writing devices or personal computers may not properly function in the device. This may be caused by damaged recording method, contamination by dirt and other foreign substance on the disc surfaces or play lens, and various other reasons.

- Special formats or special features regarding software
- CD-R/RW Compatibility.
- This device operates as a CD-ROM including CD-R and CD-RW DISC written in CD Audio or MP3 CD Format.

However, other contents may cause abnormal disc operation such as noise.

- The writing of CD-R and CD-RW discs with this device is not supported.
- Although CD-R/RW discs burned as audio CDs which have not been finalized are not supported by the device, some information such as play time may be displayed.
- PC-created DISC compatibility.
- When recording a disc with a personal computer, even discs recorded in a "format compatible" with the formats described above may not operate on the device caused by software settings of the recording application. In such cases, contact the software developer.
- Additional information regarding compatibility can be found on the CD-R/RW software disc box.

DVD-R/RW are not supported by the device.

- Compressed audio compatibility  
This device plays audio files compressed by MPEG-1 audio stream layer 3(MP3) using 32, 44.1 and 48kHz fixed bit rates. Incompatible files are not supported.
- Variable bit rate files may operate, but the play time information may not be properly displayed.
- Physical formats of CD : Model 1, Model 2 XA format 1.
- This device only supports tracks with file extension of ".MP3" or ".WMA".
- This device does not support multi-session discs.
- This device supports a maximum of 256 folders and maximum 512 files.
- Folders and files which exceed this limit will not be supported.
- There are various bit rates which can be encoded onto a MP3 file.  
This device has been designed to be compatible with various bit rates.  
Audio which has been encoded at 128kbps will sound similar to CD audio sound quality.

Although this device supports low bit rate MP3 tracks, such tracks may only provide low quality sound.

- For stable operation, the use of files in 95kbps ~ 192kbps bit rate range and 44.1kHz SAMPLING frequency is recommended.

**Inserting/Ejecting Disc**

**Inserting a Disc**

Insert the disc into the slot.  
The disc will begin playing automatically after it has been inserted.

**INFORMATION**

If the operation mode had been Audio mode before inserting the disc, the device will convert to the DISC mode screen and begin playing.

If the operation mode had been Navigation mode, then Navigation mode screen will remain and the disc play status will be displayed through the Audio bar.

**Ejecting a Disc**

Press the key.  
The disc will immediately be stopped and ejected.

**INFORMATION**

- If the operation mode had been in Audio mode before ejecting the disc, the device will be converted back to Audio mode.
- If the operation mode had been in Navigation mode, then Navigation mode screen will remain.
- If the disc is straddled on the slot without removing for approximately 10 seconds, the disc will be re-inserted automatically into the disc player.  
In such a case, the disc will not begin playing automatically.

PART 2 AUDIO SYSTEM

CD

Listening to CD music



1. Insert the CD or press the **MEDIA** key on the control panel if the CD is already inserted.
2. Select the desired track. [Q](#) [Selecting the CD track], page 2-15.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"DISC"  
"CD"  
"CD Track <1 to 665>"

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CD screen and functions



1. Mode display : displays that the current mode is CD mode.
  2. REPEAT/RANDOM/SCAN indicator : if REPEAT/RANDOM/SCAN is operating, the switch is displayed.
  3. Track number : displays the track number.
  4. Play Time : displays the play time.
  5. Current time : displays the current time manually automatically according to the GPS time.
- Repeat** buttons : repeat the current playing track.  
[Q](#) [Setting Repeat function for CD music], page 2-15.

- Random** button : plays the tracks on the disc in random order.  
[Q](#) [Setting Random function for CD music], page 2-16.
- Scan** button : scans all tracks on the disc for 10 seconds each.  
[Q](#) [Scanning CD track], page 2-16.
- Sound** button : adjusts the FAD/BAL, BAS, MID, TRE controls.  
[Q](#) [Sound setting], page 1-10.

**Selecting the CD track**

There are 2 ways to select a CD Track - (a) selecting through Track Up/Down, (b) selecting through searching Track.

- (a) Selecting through Track Up / Down**  
Press the **Track Up/Down** key on the control panel or steering wheel remote controller for less than 0.8 second. The next or previous track will begin playing.

**INFORMATION**

If the **Track Up/Down** key on the control panel or steering wheel remote controller is pressed shortly while the track has played for more than 3 seconds, the start of the current track will begin playing. If the track has been playing for less than 2 seconds, the start of the previous track will begin playing.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Next Track"  
"Previous Track"

**(b) Selecting track through search**

1. Press the **VTUNE** key to search for desired to display track. Each click on the **VTUNE** key will display the information of the next or previous track. The current playing track will continue to be played.

2. Press the **VTUNE** key at the desired track. The searched track will begin playing.

**REW/FF CD track**

Press and hold the **REW/FF** key on the control panel or steering wheel remote controller for over 0.8 second.

The track will play 20 times faster while holding the button and return to normal play when the button is released.

**Setting Repeat function for CD music**

Press the **Repeat** button. Each press will change the function in the following order: REPEAT → REPEAT OFF → REPEAT  
• REPEAT : repeats the current playing track.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Repeat Track"  
Say "Normal Play" in order to terminate the set Repeat.

**Setting Random function for CD music**

Press the **Random** button. Each press will change the function in the following order: RANDOM → RANDOM OFF → RANDOM...  
• RANDOM : plays all tracks in the disc in random order.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"Random"  
Say "Normal Play" in order to terminate the set Random function.

AUDIO SYSTEM

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PART 2 AUDIO SYSTEM

Scanning CD track

1. Press the **Scan** button. Each press will change the function in the following order: SCAN → SCAN OFF → SCAN...
- SCAN : scans all tracks in the disc for 10 seconds each.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command. "Scan"  
Say "Normal Play" in order to terminate the set Scan function.
2. Press the **Scan** button again to continue listening to the track. The scan will be terminated and the current track will continue to be played.

**INFORMATION**

When scanning has completed an entire revolution, the scan function is automatically terminated and the previous played track will be restored.

**MP3**

**MP3 disc related information and precaution**

- Information
  - The MP3 file standards supported by the device are as follows.
  - Acceptable standard: MPEG1 AUDIO LAYER 3
  - Acceptable sampling frequency: 32, 44.1, 48 (KHz)
  - Acceptable bit rate: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (Kbps)
  - Recommended bit rate & reference sampling frequency: 96, 128, 192 Kbps fixed bit rate /44.1KHz
  - ID3 tag  
This device supports ID3v1.0, ID3v1.1, ID3v2.2, ID3v2.3, and ID3v2.4 ID3 tags.
  - Supported media  
The MP3 media supported by the device are CD-ROM and USB.

- Supported media formats  
This device supports ISO9660 LEVEL1 and LEVEL2. Detailed specification is as below.
- Maximum directory layers: 8 layers
- Maximum folder length: 64 Bytes, file name length: 64 Bytes
- Supported characters for folder name/ file name: Alphanumeric characters, Korean standard character set 2350 characters, Simplified Chinese 4888 characters
- Maximum number of folders which can be stored onto one disc: 256 folders (including ROOT directory)
- Maximum number of files which can be stored onto one disc: 512 files
- Precautions upon burning MP3 files
- The use of ISO 9660 LEVEL 2 JOLIET format is recommended when burning MP3 files. Burning in other formats may abnormally display the file names.
- It is possible to display up to 32 characters for file and folder names in case of UNICODE, and up to 64 characters in case of ASCII. Although the full length of the file name can be displayed by using the scroll function, the full

length of folder names may not be displayed as the scroll function does not operate when displaying folder names.

- Precaution  
Please use a MP3 bit rate which is less than 128 kbps. The sound quality cannot be guaranteed for MP3s exceeding 128kbps.

PART 2 AUDIO SYSTEM

Listening to MP3 music



1. Insert the MP3 disc or press the **MEDIA** key on the control panel if the MP3 disc is already inserted.
2. Select the desired file. [Selecting the MP3 file], page 2-19.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.  
"DISC"  
"CD"  
"MP3"

MP3 screen and functions



1. Mode display : displays that the current mode is MP3 disc mode. (MP3 files on DVD discs are not supported.)
2. REPEAT/RANDOM/SCAN indicator : If REPEAT/RANDOM/SCAN is operating, the switch is displayed.
3. Play Time : displays the play time.
4. Folder name : displays the folder name.
5. File name : displays the file name.
6. Current time : displays the current time manually automatically according to the GPS time.

- Info On/Off** button : displays or hides the detailed file information for the current playing file.  
[Viewing detail information for MP3 file], page 2-20.
- List** button : displays the MP3 folders and file lists for the disc.  
[Selecting the MP3 file], page 2-19.
- Repeat** button : repeats the current playing folder or file.  
[Setting repeat function for MP3 file], page 2-20.
- Random** button : plays all files on the disc or folder in random order.  
[Setting random function for MP3 file], page 2-20.
- Scan** button : scans all files on the disc or folder for 10 seconds each.

Selecting to MP3 music

There are 3 ways to select an MP3 file - (a) selecting through file up/down, (b) selecting through searching files, (c) selecting through MP3 list.

(a) Selecting through File Up / Down

Press the **UP** key on the control panel or steering wheel remote controller for less than 0.8second. The next or previous file will begin playing.

**INFORMATION**

If the **UP** key on the control panel or steering wheel remote controller is pressed shortly while the song has played for more than 3 seconds, the start of the current song will begin playing. If the song has been playing for less than 2 seconds, the start of the previous song will begin playing.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.

2. After the beep sound, say a command.

- "Next File"
- "Previous File"
- "Next Folder"
- "Previous Folder"

(b) Selecting through search

1. Press the **TUNE** key to search for desired to display file. Each click on the **TUNE** key will display the information of the next or previous file. The current playing file will continue to be played.

**INFORMATION**

If the operation of the Tune knob is too rapid, there may be a delay in displaying the file information.

2. Press the **TUNE** key at the desired file. The searched file will begin playing.

(c) Selecting through MP3 List

1. Press the **List** button. The file list of the folder for the current playing file will be displayed.

**INFORMATION**

If many songs and folders are recorded onto a DISC, file loading time may be longer and cause the play list to be improperly displayed or song search through TUNE operation to operate improperly. In such cases, wait until file loading is complete and try again.



2. Press the desired menu to return to the main screen and play the selected file.

PART 2 AUDIO SYSTEM

**REW/FF MP3 file**

Press and hold the **REW/FF** key on the control panel or steering wheel remote controller for over 0.8 second.  
The file will play 20 times faster while holding the button and return to normal play when the button is released.

**Viewing detail information for MP3 file**

1. Press the **Info On** button. The detailed information (Title, Artist, Album, Genre) for the current playing MP3 will be displayed.



2. Press the **Info Off** button. The detailed information will be turned off.

**Setting Repeat function for MP3 file**

Press the **Repeat** button.  
Each press will change the function in the following order: Repeat → Folder Repeat → Repeat Off → Repeat ...  
• Repeat: repeats the current playing file.  
• Folder Repeat: repeats the files in the current folder.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.  
2. After the beep sound, say a command.  
"Repeat File"  
"Repeat Folder"  
Say "Normal Play" in order to terminate the set Repeat function.

**Setting Random function for MP3 file**

Press the **Random** button.  
Each press changes the setting as follows: Random → Folder Random → Random Off → Random ...  
• Folder Random: plays the files in the current folder in random order.  
• Random: plays all files in the disc in random order.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.  
2. After the beep sound, say a command.  
"Random"  
"Random Folder"  
Say "Normal Play" in order to terminate the set Random function.

**Scanning MP3 file**

1. Press the **Scan** button.  
Each press will change the function in the following order: Scan → Folder Scan → Scan Off → Scan ...  
• Folder Scan: plays all files in the current folder for 10 seconds each.  
• Scan: scans all files in the disc for 10 seconds each.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.  
2. After the beep sound, say a command.  
"Scan"  
"Folder Scan"  
Say "Normal Play" in order to terminate the set Scan function.  
3. Press the **Scan** button again to continue listening to the file. The scan will be terminated and the current file will continue to be played.

**INFORMATION**

When scanning has completed an entire revolution, the scan function is automatically terminated and the previously played file will be restored.

PART 2 AUDIO SYSTEM

Operating external devices

iPod®

iPod® is a registered trademark of Apple Inc.

Connecting iPod devices



Connect the iPod device as shown in the picture.

The Hyundai iPod Power cable is needed in order to operate iPod with the audio buttons on the audio system. The USB cable provided by Apple may cause malfunction and should not be used for Hyundai vehicles.

The Hyundai iPod Power cable may be purchased through your Hyundai dealership.

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● **Unsupported iPod devices :** iPod generations before iPod 3G, iPod Shuffle, and iPad.

**CAUTION!**

Some functions may not operate properly depending on the firmware version in some iPod or iPhone devices.

**INFORMATION**

In order to prevent such malfunction, check the following before connecting your iPod or iPhone device with the Hyundai iPod Cable.

- If the battery has been completely discharged, charge the device for at least 10 minutes before connecting.
- Turn on the device before connecting.
- If the device is set to lock, release the lock before connecting.
- For iPhones, audio will not play if the audio system and BT are paired. Disconnect the pairing before connecting.

When there are no songs in the iPod or iPhone or if there is no response from the device after connecting with the Hyundai Cable, a "No Media Connected" pop-up message will be displayed for 5 seconds and the previous mode will automatically be restored. In such cases, disconnect the iPod or iPhone and try connecting again.

If the message continues even after reconnecting the iPod, check to see if there are any problems with the iPod device.

**CAUTION!**

If a playing iPod is connected to the audio system, a high-pitched tone may occur for approximately 1-2 seconds. Please turn the iPod device to pause/stop prior to connecting it to the vehicle.

Listening to iPod music



1. Connect the iPod or press the **MEDIA** key on the control panel if the iPod is already connected.

**INFORMATION**

Even if the iPod is connected, message may be displayed if an error has occurred. In such a case, reconnect the iPod.

2. Select the desired song.  
 ⓘ [Selecting an iPod song], page 2-23.

**Voice Command**

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command. "iPod"

iPod screen and functions



- 1 **Mode display** : displays that the current mode is iPod mode.
- 2 **REPEAT/RANDOM indicator** : if REPEAT/RANDOM is operating, the switch is displayed.
- 3 **Title name** : displays the title name of the playing file.
- 4 **Play Time** : displays the play time.
- 5 **Artist name** : displays the artist name of

- the playing file.
- 6 **Album name** : displays the album name of the playing file.
- 7 **Current time** : displays the current time manually automatically according to the GPS time.

- 8 **Menu** button : converts to the search menu screen.  
 ⓘ [Selecting an iPod song], page 2-23.
- 9 **Repeat** buttons : repeats the current playing song.  
 ⓘ [Setting repeat function for iPod song], page 2-25.
- 10 **Random** button : plays all songs in the current playing list in random order or randomly in album unit.  
 ⓘ [Setting random function for iPod song], page 2-25.
- 11 **Sound** button : adjusts the FAD/BAL, BASS/MID/TREB controls.  
 ⓘ [Sound setting], page 1-10.

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AUDIO SYSTEM